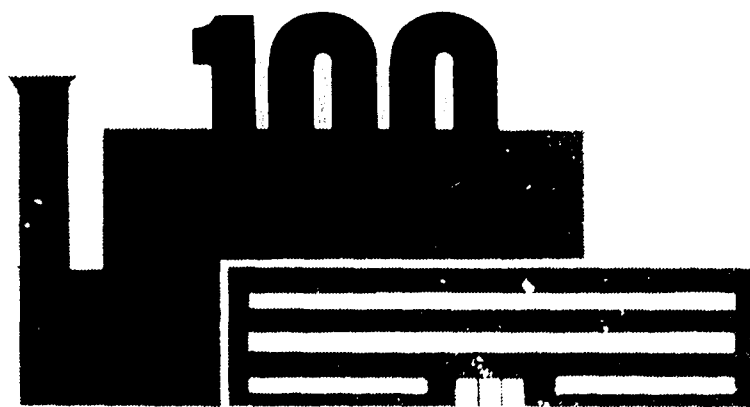


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# 100 COMPANIES

## RECEIVING THE LARGEST DOLLAR VOLUME OF PRIME CONTRACT AWARDS Fiscal Year 1982



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RESEARCH-OPERATION-TECHNOLOGY-DEFENSE



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Department of Defense

**100 COMPANIES  
RECEIVING THE LARGEST DOLLAR VOLUME  
OF PRIME CONTRACT AWARDS**

Fiscal Year 1982

Issued Annually by  
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## **FOREWORD**

This report is published annually by the Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports. It contains summary data on the 100 companies and their subsidiaries which were awarded the largest total dollar volume of Department of Defense prime contract awards during Fiscal Year 1982.

Requests for additional information should be addressed to the WHS/DIOR Special Projects Division, Room 1C535, The Pentagon, Washington, D.C., 20301.

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## INTRODUCTION

This report presents summary data on the 100 companies and their subsidiaries receiving the largest dollar volume of Department of Defense (DOD) prime contract awards during Fiscal Year (FY) 1982. Table 1 (page 7) lists the 100 companies in alphabetical order and gives their associated rank. Table 2 (page 9) identifies the parent companies in rank order, with their subsidiaries, and gives the total net value of awards for both the parent company and its subsidiaries. In many cases the parent company receives no awards itself but appears on the list because of its subsidiaries. Table 2 also shows what percent of the total awards each company's awards represent as well as the cumulative percent represented by all companies.

## NOTES ON COVERAGE

Data in this report reflect the net value of both debit and credit procurement actions over \$10,000, e.g., the value of a terminated contract or other downward adjustment to a contract is deducted from a firm's total award amount, while modifications and other positive adjustments are treated as increases. Procurement actions include definitive contracts, the obligated portions of letter contracts, job orders, task orders, delivery orders, and any other orders against existing contracts. Research and development, services, construction, and supply and equipment contracts, worldwide, are included.

The report does not include those parts of indefinite quantity contracts that have not been translated into specific orders to business firms, or those contracts that have not yet become mutually binding agreements between the government and the company. The company totals do not include contracts made by other U.S. Government agencies and financed with Department of Defense funds or contracts awarded in foreign nations through their respective governments.

The assignment of subsidiaries to parent companies is based on stock ownership of 50 percent or more by the parent company, as indicated by data published in standard industrial reference sources. The company names and corporate structures are those in effect as of September 30, 1982. For the purposes of this report company names have been retained unless specific knowledge was available that a company has been merged into the parent or absorbed as a division with loss of company identity. Only those subsidiaries are shown for which procurement actions have been reported.

## HIGHLIGHTS OF FY 1982 DATA

Department of Defense prime contract awards over \$10,000 totaled \$116.7 billion during FY 1982, \$19.3 billion more than in FY 1981. The 100 firms and their subsidiaries receiving the largest amount of DOD contracts in FY 1982 received \$76.8 billion or 65.9 percent of this amount, primarily for aircraft, missile/space systems, ships, and electronics/communications equipment. In FY 1981, the top 100 companies received \$64.7 billion or 66.4 percent of all awards.

Table A below shows that the first five companies received 19.6 percent of the total received by all companies in FY 1982, compared with 17.7 percent during FY 1981. The company ranked as number one in FY 1982, General Dynamics Corporation, received awards totaling \$5.9 billion, compared with awards totaling \$4.4 billion for the number one company in FY 1981. The smallest total amount received by a company on the FY 1982 list was \$136 million, compared with \$119 million in FY 1981.

**TABLE A**

Company Position	Percent of Total			
	FY 1979	FY 1980	FY 1981	FY 1982
1st	5.5%	4.6%	4.5%	5.0%
2nd	5.1	4.2	3.9	4.8
3rd	4.0	4.0	3.5	3.6
4th	3.2	3.1	3.0	3.2
5th	3.0	2.9	2.8	3.0
TOTAL 1-5	20.7	18.8	17.7	19.6
6-10	10.8	11.0	10.4	11.5
11-25	14.6	15.4	15.6	14.8
TOTAL 1-25	46.1	45.2	43.8	45.9
26-50	11.0	11.6	12.4	10.8
51-75	5.8	5.8	6.4	5.7
76-100	3.5	3.3	3.8	3.5
TOTAL 1-100	66.4%	65.9%	66.4%	65.9%

#### **Changes in the Top 100 Companies, FY 1981 to FY 1982**

Seventeen contractors who did not appear on the list last year are among the top 100 companies this year. (See Table B, page 3.) Of these, one appears in position 46, one in position 47, one in position 49, and the balance between positions 56 and 100. The seventeen contractors who appeared on the FY 1981 list who do not appear on this year's list are also shown in Table B.

Of the 83 companies appearing on the list in both Fiscal Years 1981 and 1982, 50 advanced their position, 30 are in a lower position, and 3 showed no change. Companies are considered as appearing on the list in both years despite mergers, acquisitions, divestitures, and name changes if a major component of a newly constituted company or the newly constituted company itself made the list as a component of a company in the top 100 in the prior year.

**TABLE B**

<b>Companies Listed in FY 1982 But not in FY 1981*</b>	<b>Companies Listed in FY 1981 But Not in FY 1982</b>
Eaton Corp.	Al Huseini
First Colony Farms	Amerada Hess Corp.
Gulf States Oil & Refining Co.	Ashland Oil, Inc.
H B H Co.	British Petroleum Co., Ltd.
Hanil Dev. Co., Ltd. & Al Mabani, JV	Chin Hueng Intl. & General Contr., JV
Hewlett Packard Co.	Chrysler Corp.
Hospital Corp. of America	Eastman Kodak Co.
Kaman Corp.	Ex Cell O Corp.
Mabco Prefabricated Bldg. Co.	G A T X Corp.
Mi Ryung Constr. Co., Ltd.	Houston Oil & Refining, Inc.
Norris Industries, Inc.	I C C I & Al Miraibid Etal, JV
Oshkosh Truck Co.	Lear Siegler, Inc.
Peterson Builders, Inc.	Mason Chamberlain, Inc.
Sun Chemical Corp.	Roarda, Inc.
United Industrial Corp.	U.S. & South American Enterprises
Varian Associates, Inc.	Vinnell Corp.
You One Construction Co., Ltd.	Xerox Corp.

*\*Excludes Pride Refining Company, which is now shown as a subsidiary of Soberbio, Inc.*

Name changes during Fiscal Year 1982 included Philbro Salomon, Inc., formerly Philbro Corp.; GTE Corp., formerly General Telephone & Electronics Corp.; and Morton Thiokol, Inc., formerly Thiokol Corp.

### **Primary Procurement Categories of the Top 100 Companies**

Although the contract work of many companies on the list includes more than one procurement category, each company has been assigned in Table C (page 4) to the procurement category that accounts for its largest dollar volume of DOD awards; for example, International Telephone and Telegraph Corporation is a multi-industry company producing electronic and communications equipment and industrial and consumer products. For this table, it has been assigned to "Electronics", the procurement category accounting for its largest dollar volume of DOD contract awards. On this basis, the number of companies on the list supplying ammunition, electronics, and services each increased by three; those supplying ships, construction, and weapons each increased by one; while all other categories either showed no change or decreased.



TABLE C

Procurement Category	Number of Companies		
	FY 1981	FY 1982	Change
Aircraft	16	15	- 1
Missiles	15	11	- 4
Ships	6	7	1
Tank-Automotive	7	6	- 1
Ammunition	5	8	3
Electronics	17	20	3
Services	6	9	3
Construction	3	4	1
Petroleum	24	19	- 5
Weapons	0	1	1
Subsistence	0	0	0
All Other	1	0	- 1

#### Companies With Prime Contract Awards Totaling Over \$1 Billion

During FY 1982, 18 companies received prime contract awards totaling over \$1 billion. Each company is listed in Table D by rank, along with its FY 1981 rank and the dollar value of the awards it received in both FY 1981 and FY 1982. Table E (page 5) describes the major products of these 18 companies.

TABLE D

Rank		Company Name	Awards (In Billions)	
1982	1981		1982	1981
1	3	General Dynamics Corp.	\$5.9	\$3.4
2	1	McDonnell Douglas Corp.	5.6	4.4
3	2	United Technologies Corp.	4.2	3.8
4	4	General Electric Co.	3.7	3.0
5	6	Lockheed Corp.	3.5	2.7
6	5	Boeing Co.	3.2	2.7
7	7	Hughes Aircraft Co.	3.1	2.6
8	16	Rockwell International Corp.	2.7	1.1
9	8	Raytheon Co.	2.3	1.8
10	12	Martin Marietta Corp.	2.0	1.3
11	9	Grumman Corp.	1.9	1.7
12	26	Northrop Corp.	1.6	.6
13	17	Westinghouse Electric Corp.	1.5	1.1
14	18	FMC Corp.	1.4	1.1
15	11	Litton Industries, Inc.	1.3	1.4
16	22	Honeywell, Inc.	1.2	.8
17	23	International Business Machines Co.	1.2	.8
18	20	Sperry Corp.	1.1	.9

**TABLE E**

<u>Company</u>	<u>Major Products</u>
1. General Dynamics Corp.	F-16 and F-111 fighter aircraft. Nuclear submarines. TOMAHAWK, STINGER, and TERRIER missile systems. MK-15 close-in weapon system. M60 tank.
2. McDonnell Douglas Corp.	F-18 HORNET, F-15 EAGLE, and AV-8 HARRIER aircraft. HARPOON and TOMAHAWK missile systems.
3. United Technologies Corp.	F-100, TF-30, and J-67 turbofan and turbojet aircraft engines. UH-60 UTTAS, CH-53 SEA STALLION, and SH-60 SEA-HAWK helicopters.
4. General Electric Co.	Nuclear reactors for submarines and aircraft carriers J-85, J-79, TF-39, and F101 turbofan and turbojet engines Space vehicle components. Guided missile subsystems.
5. Lockheed Corp.	C-130 HERCULES, P-3 ORION, and C-5 GALAXY aircraft. TRIDENT and AEGIS missile systems. Amphibious assault ships. Space vehicles.
6. Boeing Co.	C-135 STRATOLIFTER, B-52 STRATO FORTRESS, and CH-47 CHINOOK aircraft. AWACS. ZAGM-86 missile system. RDT&E for electronics and communications equipment. Radio and TV equipment for AABNCP-E4.
7. Hughes Aircraft Co.	TOW, MAVERICK, PHOENIX, and TRIDENT missile systems. Radar equipment and guided missile systems for A-6 INTRUDER, F-14 TOMCAT, and F-15 EAGLE aircraft. RDT&E for electronics and communications equipment and missile and space systems. M-1 combat tank and M-2 infantry fighting vehicle.
8. Rockwell International Corp.	RDT&E for aircraft and missile and space systems. PATRIOT missile system. Various electronics and communications equipment.
9. Raytheon Co.	PATRIOT, HAWK, and SIDEWINDER missile systems. Various electronics and communications equipment.
10. Martin Marietta Corp.	PERSHING and TITAN missile systems. 155mm projectiles. Guided missile launchers. RDT&E for missile and space systems and electronics and communications equipment.

**TABLE E (continued)**

<u>Company</u>	<u>Major Products</u>
11. Grumman Corp.	F-14 TOMCAT, A-6 INTRUDER, E-2 HAWKEYE, and EA-6B PROWLER aircraft. Electronic countermeasures for F-111 aircraft.
12. Northrop Corp.	F-5 FREEDOM FIGHTER and T-38 TALON aircraft. RDT&E for missile and space systems. Electronic countermeasures for F-15 EAGLE and B-52 STRATO FORTRESS aircraft.
13. Westinghouse Electric Corp.	Nuclear reactors. Electronic systems for F-16 HORNET and F-4 PHANTOM aircraft. RDT&E for electronics and communications equipment.
14. FMC Corp.	Infantry fighting vehicles. Guided missile launchers. Gun mounts. RDT&E for tank-automotive.
15. Litton Industries, Inc.	Guided missile cruisers, guided missile components, and various electronics and communications equipment.
16. Honeywell, Inc.	Munitions and RDT&E for munitions and weapons ADPE configuration.
17. International Business Machines Co.	Electronics for the SH-60 SEAHAWK helicopter Various electronics and communications equipment. RDT&E for electronics and communication equipment and space systems.
18. Sperry Corp.	Fire control and radar equipment. RDT&E and production of electronics and communications equipment and missile and space systems.

INDEX OF 100 PARENT COMPANIES WHICH WITH THEIR SUBSIDIARIES RECEIVED THE  
LARGEST DOLLAR VOLUME OF PRIME CONTRACT AWARDS IN FISCAL YEAR 1982

RANK	PARENT COMPANY	RANK	PARENT COMPANY
63	AEROSPACE CORP (N)	56	MABCO PREFABRICATED BLDG CO
66	AGIP PETROLI SPA	10	MARTIN MARIETTA CORP
39	AMERICAN MOTORS CORP	72	MASSACHUSETTS INSTITUTE TECHNOLOGY
25	AMERICAN TELEPHONE + TELEGRAPH CO	2	MCDONNELL DOUGLAS CORP
62	ATLANTIC RICHFIELD CO	96	MI RYUNG CONSTRUCTION CO LTD
28	AVCO CORP	87	MITRE (THE) CORP (N)
32	BENDIX CORP	64	MOBIL CORP
6	BOEING CO	81	MORRISON KNUDSEN CO INC
74	BURROUGHS CORP	57	MORTON THICKOL INC
79	COASTAL CORP	29	MOTOR OIL BELLAS
27	CONGOLEUM CORP	58	MOTOROLA INC
84	CONTROL DATA CORP	100	NORRIS INDUSTRIES INC
77	DUCHOSSOIS THRAILL GROUP INC	44	NORTH AMERICAN PHILIPS CORP
30	DUPONT E I DE NEMOURS + CO	12	NORTHROP CORP
73	F SYSTEMS, INC	78	OSHKOSH TRUCK CORP
49	EATON CORP	53	PACIFIC RESOURCES INC
80	EMERSON ELECTRIC CO	65	PAN AMERICAN WORLD AIRWAYS INC
23	EXXON CORP	70	PENN CENTRAL CORP
14	F M C CORP	97	PETERSON BUILDERS INC
87	FAIRCHILD INDUSTRIES, INC	38	PHIBRO SALOMON INC
47	FIRST COLONY FARMS INC	19	R C A CORP
20	FORD MOTOR CO	9	RAYTHEON CO
35	G T E CORP	59	REYNOLDS R I INDUSTRIES INC
1	GENERAL DYNAMICS CORP	8	ROCKWELL INTERNATIONAL CORP
4	GENERAL ELECTRIC CO	51	ROYAL DUTCH SHELL GROUP
26	GENERAL MOTORS CORP	54	SANDERS ASSOCIATES INC
30	GENERAL TIRE + RUBBER CO	67	SCIENCE APPLICATIONS INC
90	GETT OIL CO	55	SIGNAL COMPANIES INC (THE)
42	GOODYEAR TIRE + RUBBER CO	36	SINGER CO
60	GOULD, INC	48	SOBERDIO INC
11	GRUMMAN CORP	18	SPERRY CORP
41	GUAM OIL + REFINING CO INC	31	STANDARD OIL CO OF CALIF
71	GULF OIL CORP	52	STANDARD OIL OF INDIANA
91	GULF STATES OIL & REFINING CO	43	SUMMA CORP
85	H B H CO	98	SUN CHEMICAL CORP
89	HANIL DEV CO LTD & AL MABANI JV	76	SUN CO INC
61	HARRIS CORP	21	T R W INC
53	HERCULES, INC	33	TELEDYNE INC
93	HEWLETT PACKARD CO	22	TENNECO INC
16	HONEYWELL INC	68	TEXACO INC
86	HOSPITAL CORP OF AMERICA	24	TEXAS INSTRUMENTS INC
7	HUGHES AIRCRAFT CO	34	TEXTRON INC
17	INTERNATIONAL BUSINESS MACHINES CO	45	TODD SHIPYARDS CORP
40	INTERNATIONAL TELEPHONE + TEL CORP	99	TRANSAMERICA CORP
69	JOHNS HOPKINS UNIVERSITY (N)	95	UNITED INDUSTRIAL CORP
75	KAMAN CORP	3	UNITED TECHNOLOGIES CORP
94	KUWAIT PETROLEUM CORP	92	VARIAN ASSOCIATES INC
37	L T V CORP	13	WESTINGHOUSE ELECTRIC CORP
10	LITTON INDUSTRIES, INC	83	WILLIAMS INTERNATIONAL CORP
5	LOCKHEED CORP	46	YOU ONE CONSTRUCTION CO LTD

100 COMPANIES AND THEIR SUBSIDIARIES LISTED ACCORDING TO  
NET VALUE OF PRIME CONTRACT AWARDS

FISCAL YEAR 1982  
( 1 OCT 1981 - 30 SEP 1982)

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
T O T A L		\$116,659,772 =====	100.00	100.00
TOTAL, 100 COMPANIES + THEIR SUBSIDIARIES		76,844,770 =====	65.87	65.87
1.	GENERAL DYNAMICS CORP DATAGRAPHIX GMBH DATAGRAPHIX INC STROMBERG CARLSON CORP	5,866,506 12 13,124 11,459		
	TOTAL	5,891,101	5.05	5.05
2.	MCDONNELL DOUGLAS CORP MCDONNELL DOUGLAS ELECTRONICS CO MCDONNELL DOUGLAS TECHNICAL SVS CO VITEK SYSTEMS INC	5,617,871 11,345 810 78		
	TOTAL	5,530,104	4.83	9.88
3.	UNITED TECHNOLOGIES CORP CARRIER INTERNATIONAL CORP ESSEX GROUP INC INMONT CORP NORDEN SYSTEMS INC OTIS ELEVATOR CO	4,070,363 6,100 1,939 135 129,317 439		
	TOTAL	4,208,293	3.61	13.49
4.	GENERAL ELECTRIC CO CANADIAN GENERAL ELECTRIC CO, LTD GENERAL ELECTRIC MEDICAL SYSTEMS GENERAL ELECTRIC TECH SVC CO INC INTERSIL INC INTL GENERAL ELECTRIC CO MANAGEMENT + TECHNICAL SERVICES CO SADELMI COGEP	3,562,112 3,894 526 11 16 148 21,390 66,000		
	TOTAL	3,654,097	3.13	16.62
5.	LOCKHEED CORP LOCKHEED CALIFORNIA CO LOCKHEED ELECTRONICS CO, INC LOCKHEED ENGINEERING & MGT SVC CO LOCKHEED MISSILES + SPACE CO INC LOCKHEED SHIPBUILDING CONSTRUCTION MURDOCK MACHINE + ENGR CO OF TEXAS	1,536,711 1,940 121,297 122 1,452,034 384,038 2,408		
	TOTAL	3,498,550	3.00	19.62
6.	BOEING CO B E & C ENGINEERS INC BOEING COMPUTER SERVICES INC BOEING SERVICES INTERNATIONAL INC BOEING VERTOL CO HYDRAULIC UNITS INC	2,826,167 4,026 33,131 83,148 287,821 4,503		
	TOTAL	3,238,796	2.78	22.40

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
7.	HUGHES AIRCRAFT CO HUGHES COMMUNICATION SERVICES INC HUGHES RESEARCH LABS. SANTA BARBARA RESEARCH CENTER SPECTROLAB INC	3,045,334 67,000 2,336 25,952 113		
	TOTAL	3,140,735	2.69	25.09
8.	ROCKWELL INTERNATIONAL CORP COLLINS INTERNATIONAL SERVICE CO M G D GRAPHIC SYSTEMS INC TELEHOIST LTD WESCON INC	2,688,775 904 46 44 749		
	TOTAL	2,690,518	2.31	27.40
9.	RAYTHEON CO BEECH AEROSPACE SERVICES BEECH AIRCRAFT CORP CALORIC CORP DENVER BEECHCRAFT GLENWOOD RANGE CO INDIANA BEECHCRAFT INC IOWA MFG CO OF CEDAR RAPIDS IOWA KURAS ALTERMAN CORP LEXITRON CORP MACHLETT LABORATORIES INC RAYTHEON DATA SYSTEMS CO RAYTHEON GULF SYSTEMS CO RAYTHEON INTERNATIONAL SYSTEMS RAYTHEON MARINE CO RAYTHEON OCEAN SYSTEMS CO RAYTHEON SERVICE CO SEDCO SYSTEMS INC SORENSEN CO SPEED QUEEN CO SWITCHCRAFT INC UNITED BEECHCRAFT INC UNITED ENGINEERS + CONSTRUCTORS	2,021,207 51,632 115,765 37 523 2,401 228 757 525 5,028 2,716 1,805 27,759 161 216 300 30,150 117 54 13 163 37 696		
	TOTAL	2,262,290	1.94	29.34
10.	MARTIN MARIETTA CORP INTERNATIONAL LASER SYSTEMS INC MARTIN MARIETTA AGGERATES MARTIN MARIETTA ALUMINUM INC MARTIN MARIETTA ALUMINUM SALES INC MARTIN MARIETTA CEMENT MARTIN MARIETTA DATA SYSTEMS INC	1,898,569 10,947 116 2,331 85,285 119 10,987		
	TOTAL	2,008,354	1.72	31.06
11.	GRUMMAN CORP GRUMMAN AEROSPACE CORP GRUMMAN DATA SYSTEMS CORP	5,988 1,888,743 5,758		
	TOTAL	1,900,489	1.63	32.69
12.	NORTHROP CORP NORTHROP SERVICES INC NORTHROP WORLDWIDE ACFT SVCS INC	1,489,405 1,830 106,959		
	TOTAL	1,598,194	1.37	34.06

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
13.	WESTINGHOUSE ELECTRIC CORP	1,489,828		
	T C O M CORP	76		
	THERMO KING CORP	24		
	WESTINGHOUSE BROADCASTING & CABLE	44		
	WESTINGHOUSE INFORMATION SERVICES	155		
	WESTINGHOUSE LEARNING CORP	157		
	WESTINGHOUSE OVERSEAS SERVICE CORP	1,416		
	TOTAL	1,491,700	1.28	35.34
14.	F M C CORP	1,370,048		
	F M C ASSOCIATES	627		
	TOTAL	1,370,675	1.17	36.51
15.	LITTON INDUSTRIES, INC	31,446		
	BELOIT POWER SYSTEMS	679		
	DIEHL DATA SYSTEMS	1,041		
	KOEHLER DAYTON	17		
	LITTON BIONETICS INC	100		
	LITTON BUSINESS SYSTEMS, INC	340		
	LITTON INDUSTRIAL PRODUCTS INC	11,250		
	LITTON MEDICAL PRODUCTS, INC	13		
	LITTON MICROWAVE COOKING PRODUCTS	310		
	LITTON PRECISION PRODS INTL INC	1,240		
	LITTON SYSTEMS INC	1,269,834		
	MONROE CALCULATING CO	197		
	MONROE SYSTEMS FOR BUSINESS	136		
	TOTAL	1,316,603	1.13	37.64
16.	HONEYWELL INC	956,145		
	ELECTRONICS FOR MEDICINE	531		
	HONEYWELL ELECTRONICS CORP	53		
	HONEYWELL INFORMATION SYSTEMS, INC	250,003		
	HONEYWELL MARINE SYSTEMS CENTER	129		
	HYDRO PRODUCTS INC	622		
	SPECTRONICS INC	460		
	TETRA TECH INC	9,262		
	TOTAL	1,217,205	1.04	38.68
17.	INTERNATIONAL BUSINESS MACHINES CO	1,193,160		
	DISCOVISION ASSOCIATES	17		
	I B M DEUTSCHLAND GMBH	3,593		
	I B M INSTRUMENTS INC	35		
	I B M WORLD TRADE CORP	12		
	SCIENCE RESEARCH ASSOCIATES INC	14		
	TOTAL	1,196,831	1.03	39.71
18.	SPERRY CORP	1,148,899	0.98	40.69
19.	R C A CORP	971,534		
	HERTZ CORP	1,934		
	HERTZ EQUIPMENT RENTAL CORP	231		
	R C A AMERICAN COMMUNICATIONS INC	3,952		
	R C A GLOBAL COMMUNICATIONS, INC	18,296		
	TOTAL	995,947	0.85	41.54
20.	FORD MOTOR CO	3,477		
	FORD AEROSPACE + COMMUNICATIONS	893,249		
	TOTAL	896,726	0.77	42.31

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
21.	T R W INC	748,830		
	E S L INC	85,047		
	T R W COLORADO ELECTRONICS, INC	34,758		
	T R W TECHNICAL RESEARCH CENTER	126		
	TOTAL	868,771	0.74	43.05
22.	TENNECO INC			
	CASE (JI) CO	37,759		
	CASE POWER + EQUIPMENT LTD	114		
	MONROE AUTO EQUIPMENT CO	3,319		
	NEWPORT NEWS SHIPBLD + DRY DOCK CO	803,223		
	PACKAGING CORP OF AMERICA	83		
	TENNECO CHEMICALS, INC	71		
	TENNECO WEST INC	25		
	TOTAL	844,594	0.72	43.77
23.	EXXON CORP	656,265		
	ESSO A G	26,619		
	ESSO ITALIANA S F A	1,410		
	ESSO OFFICE SYSTEMS INC	849		
	ESSO PETROL CO LTD	450		
	ESSO S A F	17		
	ESSO STANDARD OIL CO S A	17		
	EXXON CO USA	152,446		
	EXXON ENTERPRISES INC	437		
	EXXON INFORMATION SYSTEM	29		
	EXXON RESEARCH + ENGINEERING CO	317		
	RELIANCE ELECTRIC CO	1,679		
	TOTAL	840,535	0.72	44.49
24.	TEXAS INSTRUMENTS INC	838,977	0.72	45.21
25.	AMERICAN TELEPHONE + TELEGRAPH CO	329,146		
	BELL TELEPHONE CO OF PA	3,329		
	CHESAPEAKE & POTOMAC TEL CO	48,154		
	CHESAPEAKE + POTOMAC TEL CO OF MD	4,157		
	CHESAPEAKE + POTOMAC TEL CO OF VA	11,133		
	CHESAPEAKE + POTOMAC TEL CO W VA	467		
	DIAMOND STATE TEL CO	816		
	ILLINOIS BELL TEL CO	3,197		
	INDIANA BELL TEL CO, INC	2,133		
	MICHIGAN BELL TEL CO	2,108		
	MOUNTAIN STATES TEL & TEL	15,589		
	NEW ENGLAND TEL + TEL CO	3,496		
	NEW JERSEY BELL TELEPHONE CO	1,364		
	NEW YORK TELEPHONE CO	11,583		
	NORTHWESTERN BELL TELEPHONE CO	5,221		
	OHIO BELL TELEPHONE CO	4,946		
	PACIFIC NORTHWEST BELL TELEPHONE	3,895		
	PACIFIC TELEPHONE + TELEGRAPH CO	13,953		
	SOUTH CENTRAL BELL TEL CO	8,682		
	SOUTHERN BELL TELEPHONE + TELEGRPH	16,133		
	SOUTHERN NEW ENGLAND TELEPHONE CO	351		
	SOUTHWESTERN BELL TELEPHONE	24,734		
	TELETYPE CORP	12,896		
	TRANSOCEANIC CABLE SHIP CO INC	2,239		
	WESTERN ELECTRIC CO INC	222,256		
	WISCONSIN TEL CO	667		
	TOTAL	752,645	0.65	45.86



RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
26	GENERAL MOTORS CORP	689,515	0.59	46.45
27	CONGOLEUM CORP BATH IRON WORKS CORP	675,757		
	TOTAL	675,757	0.58	47.03
23	AVCO CORP AVCO EVERETT RESEARCH LABORATORY	643,282 24,613		
	TOTAL	667,895	0.57	47.60
29	MOTOR OIL HELLAS	633,336	0.54	48.14
30	GENERAL TIRE + RUBBER CO AEROJET ELECTRO SYSTEMS CO AEROJET GENERAL CORP AEROJET LIQUID ROCKET CO AEROJET MFG CO AEROJET ORDNANCE & MFG CO AEROJET STRATEGIC PROPULSION CO AEROJET TACTICAL SYSTEMS FRONTIER AIRLINES INC JOHNSTON PUMP CO	2,910 79 558,833 14,577 1,091 23,368 1,143 23,363 33 20		
	TOTAL	625,417	0.54	48.68
31	STANDARD OIL CO OF CALIF CALTEX AUSTRALIA * CALTEX NEW ZEALAND, INC CALTEX OIL PAKISTAN CALTEX OIL PRODUCTS CO CALTEX OVERSEAS LTD CALTEX PHILIPPINES INC CHEVRON CHEMICAL CO CHEVRON INTERNATIONAL OIL CO, INC CHEVRON OIL CO CHEVRON U S A INC	1,242 88 23 96,140 314 222 167 154 127 505,506		
	TOTAL	603,983	0.52	49.20
32	BENDIX CORP BENDIX AUTOLITE CORP BENDIX FIELD ENGINEERING CORP COURTIER INC FRAM CORP TOLEDO STAMPING & MFG CO WARNER & SWASEY CO	540,780 2,489 41,777 3,286 738 81 2,545		
	TOTAL	591,696	0.51	49.71
33	TELEDYNE INC MICRONETICS INC TELEDYNE ADCOM TELEDYNE AEROSPACE SYSTEMS TELEDYNE AVIONICS TELEDYNE BATTERY PRODUCTS TELEDYNE BROWN ENGINEERING TELEDYNE C A E TELEDYNE CAMERA SYSTEMS TELEDYNE CONTINENTAL MOTORS TELEDYNE CONTROLS	42,182 207 11 107 1,861 12 78,996 26,814 2,717 68 4,710		

\*Stock ownership in the Caltex Companies is equally divided between Standard Oil of California and Texaco, Inc.

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
33.	TELEDYNE INC			
	TELEDYNE CRYSTALONICS	233		
	TELEDYNE ELECTRONICS	46,040		
	TELEDYNE ENGINEERING SERVICE	200		
	TELEDYNE EXPLORATION	62		
	TELEDYNE FARRIS ENGINEERING	169		
	TELEDYNE FIRTH STERLING INC	9,487		
	TELEDYNE GEOTECH	5,026		
	TELEDYNE GURLEY	110		
	TELEDYNE HANAU ENGINEERING	16		
	TELEDYNE HASTINGS RAYDIST	677		
	TELEDYNE HYDRA POWER	4,368		
	TELEDYNE INDUSTRIES, INC	325,886		
	TELEDYNE INET INC	803		
	TELEDYNE LANDIS MACHINE CO	433		
	TELEDYNE LEWISBURG	870		
	TELEDYNE LINAIR ENGINEERING	19		
	TELEDYNE M E C	21,165		
	TELEDYNE MCCORMICK SELPH	12,279		
	TELEDYNE MCKAY	202		
	TELEDYNE MICROELECTRONICS	391		
	TELEDYNE MONARCH RUBBER	391		
	TELEDYNE MONO THANE	68		
	TELEDYNE NATIONAL	10		
	TELEDYNE NECSHO	241		
	TELEDYNE PEER	265		
	TELEDYNE PHILBRICK	28		
	TELEDYNE PINES	196		
	TELEDYNE RELAYS	251		
	TELEDYNE REPUBLIC MFG	1,092		
	TELEDYNE SEMICONDUCTOR	11		
	TELEDYNE SPRAGUE ENGINEERING	808		
	TELEDYNE TABER	66		
	TELEDYNE THERMATICS	532		
	TELEDYNE VASCO	11		
	TELEDYNE WESTERN WIRE & CABLE	79		
	TELEDYNE WISCONSIN MOTOR	104		
	TOTAL	590,274	0.51	50.22
34.	TEXTRON INC	578,910		
	BELL HELICOPTER INTL INC	1,348		
	BELL TECHNICAL OPERATIONS CORP	3,422		
	JACOBSEN MFG CO	12		
	TOTAL	583,692	0.50	50.72
35.	G T E CORP	15		
	G T E AUTOMATIC ELECTRIC INC	400		
	G T E LABORATORIES, INC	1,039		
	G T E LENKURT, INC	2,801		
	G T E PRODUCTS CORP	534,333		
	G T E TELENET INFORMATION SVCS INC	118		
	GENERAL TELEPHONE CO OF CALIFORNIA	4,704		
	GENERAL TELEPHONE CO OF FLORIDA	2,733		
	GENERAL TELEPHONE CO OF ILLINOIS	22		
	GENERAL TELEPHONE CO OF INDIANA	711		
	GENERAL TELEPHONE CO OF KENTUCKY	191		
	GENERAL TELEPHONE CO OF MIDWEST	50		
	GENERAL TELEPHONE CO OF NORTHWEST	859		
	GENERAL TELEPHONE CO OF OHIO	841		
	GENERAL TELEPHONE CO OF SOUTHEAST	2,641		
	GENERAL TELEPHONE CO OF SOUTHWEST	2,484		
	HAWAIIAN TELEPHONE CO	13,158		
	TOTAL	567,100	0.49	51.21

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
36.	SINGER CO DIVERSIFIED TECHNOLOGIES INC H R B SINGER, INC	517,639 16 31,472		
	TOTAL	549,127	0.47	51.68
37.	L T V CORP CONTINENTAL EMSCO CO LTD JONES & LAUGHLIN STEEL INC LYKES BROS STEAMSHIP CO INC VOUGHT CORP	4,623 207 461 61,992 480,772		
	TOTAL	548,055	0.47	52.15
38.	PHIBRO SALOMON INC DERBY + CO INC	529 519,995		
	TOTAL	520,524	0.45	52.60
39.	AMERICAN MOTORS CORP A M GENERAL CORP MERCURY PLASTICS CO	69 472,562 885		
	TOTAL	473,516	0.41	53.01
40.	INTERNATIONAL TELEPHONE + TEL CORP FEDERAL ELECTRIC CORP I T T AEROSPACE CONTROLS I T T ARCTIC SERVICES I T T BARTON I T T BLACKBURN CORP I T T CONTINENTAL BAKING CO I T T COURIER TERMINAL SYSTEMS INC I T T DECCA MARINE, INC I T T ELECTRO OPTIC PRODUCTS I T T GENERAL CONTROLS, INC I T T GILFILLAN INC I T T GRINNELL CORP I T T GWALTNEY INC I T T HANMEL DAHL CONOFLOW I T T HARPER, INC I T T HENZE SERVICE I T T JENNINGS I T T MACKAY MARINE I T T NORTH ELECTRIC CO I T T POMONA ELECTRONICS INC I T T SEMICONDUCTORS INC I T T TELECOMMUNICATIONS CORP I T T WORLD COMMUNICATIONS INC J C C PUMP CO INC DUME CORP STANDARD ELEKTRIK LORENZ AG	280,390 87,535 125 7,238 3,142 258 3,853 647 34 7,163 1,498 28,250 96 4,597 76 530 42 800 39 193 99 23 2,099 12,506 1,247 24 11		
	TOTAL	442,527	0.38	53.39
41.	GUAM OIL + REFINING CO INC	436,396	0.37	53.76
42.	GOODYEAR TIRE + RUBBER CO DEUTSCHE GOODYEAR GMBH GOODYEAR AEROSPACE CORP MOTOR WHEEL CORP	76,652 52 341,829 5,215		
	TOTAL	423,748	0.36	54.12

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
43.	SUMMA CORP	110,665		
	HUGHES HELICOPTERS INC	310,160		
	TOTAL	420,825	0.36	54.48
44.	NORTH AMERICAN PHILIPS CORP	734		
	AIRPAX	864		
	AIRPAX ELECTRONICS INC	780		
	AMPEREX ELECTRONIC CORP	3,874		
	ANCHOR BRUSH CO INC	22		
	CHICAGO MAGNETIC WIRE CO	575		
	EDAX INTERNATIONAL INC	37		
	GENERAL ATRONICS CORP	3,675		
	KULKA ELECTRIC CORP	263		
	MAGNAVOX ADVANCED PROD & SYS CO	24,713		
	MAGNAVOX CO	132,545		
	MAGNAVOX DATA SYSTEMS INC	220		
	MAGNAVOX GOVT + INDUSTRIAL ELEC CO	236,036		
	MEPCO ELECTRA INC	526		
	NORTH AMERICAN PHILIPS CONTROLS CO	612		
	NORTH AMERICAN PHILIPS LTG CORP	421		
	PHILIPS BUSINESS SYSTEMS INC	94		
	PHILIPS ELECTRONIC INSTRUMENTS INC	485		
	PHILIPS MEDICAL SYSTEMS INC	2,255		
	S & H X RAY CO THE	168		
	SMITH HERMAN H INC	31		
	THOMPSON HAYWARD CHEMICAL CO	153		
	VERD A RAY CORP	75		
	TOTAL	409,158	0.35	54.83
45.	TODD SHIPYARDS CORP	404,255	0.35	55.18
46.	YOU ONE CONSTRUCTION CO LTD	371,652	0.32	55.50
47.	FIRST COLONY FARMS INC			
	UNITED STATES LINES CO	369,152		
	TOTAL	369,152	0.32	55.82
48.	SOBERBIO INC			
	PRIDE REFINING INC	355,256		
	TOTAL	355,256	0.30	56.12
49.	EATON CORP	330,583		
	OPTIMETRIX CORP	15		
	SHALLCROSS MFG CO	36		
	TOTAL	330,634	0.29	56.41
50.	DUPONT E I DE NEMOURS + CO	20,570		
	CONOCO INC	55,873		
	CONOCO LTD	13,011		
	DOUGLAS OIL CO OF CAL	37,044		
	DUPONT FAR EAST INC	13		
	ENDO LABORATORIES, INC	1,230		
	NEW ENGLAND NUCLEAR CORP	37		
	REMINGTON ARMS CO, INC	199,117		
	TOTAL	326,895	0.28	56.69

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
51	ROYAL DUTCH SHELL GROUP			
	SHELL CHEMICAL INC	636		
	SHELL CO OF THE ISLAND	1,226		
	SHELL CURACAO N V	51,440		
	SHELL EASTERN PETROLEUM FTE LTD	129,230		
	SHELL FRANCAISE	163		
	SHELL INTERNATIONAL	11,246		
	SHELL NEDERLAND	14,867		
	SHELL OIL CO	104,362		
	SHELL UK LTD	13,218		
	TOTAL	326,393	0.28	56.97
52.	STANDARD OIL OF INDIANA			
	AMOCO ENGINEERED PLASTICS CO	17		
	AMOCO OIL CO	323,260		
	TOTAL	323,277	0.28	57.25
53.	HERCULES, INC	307,946		
	ADRIA LABORATORIES INC	1,009		
	TOTAL	308,955	0.26	57.51
54.	SANDERS ASSOCIATES INC	305,908		
	CALIFORNIA COMPUTER PRODUCTS INC	2,404		
	TALOS SYSTEMS INC	229		
	TOTAL	308,541	0.26	57.77
55.	SIGNAL COMPANIES INC (THE)	22		
	AERO HYDRAULICS INC	62		
	AIRSUPPLY CO	975		
	AMPEX CORP	20,317		
	DUNHAM BUSH INC	1,018		
	GARRETT CORP (THE)	272,122		
	GARRETT MFG LTD	913		
	GARRETT PNEUMATICS CO.	222		
	GARRETT TURBINE	2,339		
	MACK TRUCKS INC	687		
	U O P INC	7,534		
	UNIVERSAL OIL PRODUCTS CO	1,071		
	TOTAL	307,282	0.26	58.03
56.	HABCO PREFABRICATED BLDG CO	292,687	0.25	58.28
57.	MORTON THICKOL INC	289,843		
	MORTON NORWICH PRODUCTS INC	1,988		
	TOTAL	291,831	0.25	58.53
58.	MOTOROLA INC	267,164		
	MOTOROLA SEMICONDUCTOR PRODUCTS	417		
	TEGAL CORP	256		
	UNIVERSAL DATA SYSTEMS INC	40		
	TOTAL	267,877	0.25	58.78
59.	REYNOLDS R J INDUSTRIES INC	1,219		
	DEL MONTE CORP	14,112		
	DEL MONTE SALES CO	4,292		
	REYNOLDS R J TOBACCO CO	47,909		
	SEA LAND INDUSTRIES USA INC	66,013		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
59.	REYNOLDS R J INDUSTRIES INC SEA LAND SERVICE INC	150,625		
	TOTAL	286,170	0.25	59.03
60.	GOULD, INC	260,813		
	BETA INSTRUMENT CORP	12		
	CHESAPEAKE INSTRUMENT CORP	50		
	DELTEC CORP	24		
	DEVICES & COMPONENTS CO	22		
	HOFFMAN ELECTRONICS INC	27		
	I T E IMPERIAL CORP	4,638		
	IMPERIAL EASTMAN CORP	11		
	SYSTEMS ENGINEERING LABS INC	12,101		
	TOTAL	277,698	0.24	59.27
61.	HARRIS CORP	268,333		
	HARPIS VIDEO SYSTEMS INC	566		
	TOTAL	268,919	0.23	59.50
62.	ATLANTIC RICHFIELD CO	213,217		
	ANACONDA ALUMINUM CO	163		
	ANACONDA CO	753		
	ANACONDA ERICKSON INC	1,348		
	ANACONDA INDUSTRIES	112		
	ARCO PETROLEUM CO	52,718		
	ARCO PIPE LINE CO	476		
	TOTAL	268,787	0.23	59.73
63.	PACIFIC RESOURCES INC			
	GASCO INC	2,357		
	HAWAIIAN INDEPENDENT REFINERY INC	259,560		
	P R I NORTHWEST INC	3,096		
	PACIFIC RESOURCES TERMINALS INC	53		
	TOTAL	265,066	0.23	59.95
64.	MOBIL CORP			
	CONTAINER CORP OF AMERICA	187		
	HOME OIL CO THE	184		
	HYDRO CONDUIT CORP	1,380		
	MOBIL OIL CORP	251,592		
	MOBIL OIL PHILIPPINES, INC	274		
	MOBIL PIPE LINE CO	530		
	TOTAL	254,147	0.22	60.18
65.	PAN AMERICAN WORLD AIRWAYS INC	252,192	0.22	60.40
66.	AGIP PETROLI SPA	247,104	0.21	60.61
67.	SCIENCE APPLICATIONS INC	242,310		
	J R B ASSOCIATES INC	2,113		
	S A , COMSYSTEMS CORP	25		
	TOTAL	244,448	0.21	60.82

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
68	AEROSPACE CORP (N)	236,546	0.20	61.02
69	JOHNS HOPKINS UNIVERSITY (N)	236,014	0.20	61.22
70	PENN CENTRAL CORP			
	AUTOMATION INDUSTRIES INC	217,674		
	G K TECHNOLOGIES INC	1,502		
	MARATHON BATTERY CO	11,234		
	MARATHON LE TOURNEAU CO	819		
	MARATHON MFG CO	1,140		
	SPRAGUE ELECTRIC CO	2,506		
	TOTAL	234,875	0.20	61.42
71	GULF OIL CORP	140,151		
	GULF OIL CHEMICALS CO	39		
	GULF OIL GREAT BRITAIN LTD	1,081		
	GULF PETROLEUM SA PANAMA	4,748		
	GULF RESEARCH + DEVELOPMENT CO	37		
	GULF TRADING & TRANSPORT CO	471		
	HARSHAW CHEMICALS CO	32		
	INDUSTRIAL ASPHALT INC	36		
	KEWANEE BOILER CORP	63		
	KOREA OIL CORP	74,212		
	TOTAL	220,870	0.19	61.61
72	MASSACHUSETTS INSTITUTE TECHNOLOGY	219,000	0.19	61.80
73	E SYSTEMS, INC	198,842		
	SERV AIR INC	15,924		
	TOTAL	214,766	0.18	61.98
74	BURROUGHS CORP	117,248		
	BURROUGHS CONTROL CORP	25		
	BURROUGHS MACHINES LTD	21		
	GRAPHIC SCIENCES INC	77		
	MEMOREX CORP	13,641		
	REDACTRON CORP	396		
	SYSTEM DEVELOPMENT CORP	83,093		
	SYSTEMS RESEARCH INC	35		
	TOTAL	214,536	0.18	62.16
75	KAMAN CORP	132,482		
	BRUNO C & SON INC	73		
	KAMAN AEROSPACE CORP	51,250		
	KAMAN BEARING & SUPPLY CORP	42		
	KAMAN SCIENCES CORP	15,973		
	KAMAN TEMPO	53		
	KAMATICS CORP	8,659		
	TOTAL	208,537	0.18	62.34
76	SUN CO INC	118,316		
	SUN REFINING & MARKETING CO	81,169		
	TOTEM OIL TRAILER EXPRESS INC	4,321		
	TOTAL	203,806	0.17	62.51

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
77.	DUCHOSSOIS THRALL GROUP INC CHAMBERLAIN MFG CORP	190,457		
	TOTAL	190,457	0.16	62.67
78.	OSHKOSH TRUCK CORP	182,871	0.16	62.83
79.	COASTAL CORP BELCHER NEW ENGLAND INC BELCHER OIL CO BELCHER OIL CO OF CAPE CANAVERAL BELCHER TERMINALS INC COASTAL STATES ENERGY CO COASTAL STATES MARKETING INC PACIFIC REFINING CO	9,877 43,869 8,142 793 231 115,711 3,885		
	TOTAL	182,508	0.16	62.99
80.	EMERSON ELECTRIC CO ATWOOD & MORRILL CO INC CHANCE A B CO ELECTRONIC NAVIGATION INDUSTRIES FLOW TECHNOLOGY INC RIDGE TOOL CO ROSEMOUNT INC SWECO INC XOMAX CORP	154,642 167 15,531 199 414 180 11,264 67 21		
	TOTAL	182,485	0.16	63.15
81.	MORRISON KNUDSEN CO INC NATIONAL STEEL & SHIPBUILDING CO WESTERN AIRCRAFT MAINTENANCE INC	43,040 139,390 50		
	TOTAL	182,480	0.16	63.31
82.	FAIRCHILD INDUSTRIES, INC AMERICAN SATELLITE CORP GREER HYDRAULICS INC V S I CORP	172,487 3,660 346 2,657		
	TOTAL	179,150	0.15	63.46
83.	WILLIAMS INTERNATIONAL CORP	176,539	0.15	63.61
84.	CONTROL DATA CORP CONTROL DATA CANADA LTD SERVICE BUREAU CORP THE	175,738 25 96		
	TOTAL	175,859	0.15	63.76
85.	H B H CO	175,675	0.15	63.91
86.	HOSPITAL CORP OF AMERICA HEALTH CARE INTERNATIONAL HOSPITAL CORP INTL LTD	18 174,681		
	TOTAL	174,699	0.15	64.06



RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
87.	MITRE (THE) CORP (N)	167,467	0.14	64.20
88.	TEXACO INC	12,507		
	CALTEX AUSTRALIA *	1,242		
	CALTEX NEW ZEALAND, INC	88		
	CALTEX OIL PAKISTAN	22		
	CALTEX OIL PRODUCTS CO	96,139		
	CALTEX OVERSEAS LTD	314		
	CALTEX PHILIPPINES INC	221		
	DEUTSCHE TEXACO VERKAUF GMBH	6,798		
	TEXACO INTERNATIONAL TRADER INC	43,274		
	TEXACO PANAMA INC	11		
	TEXACO UK LTD	5,641		
	TOTAL	166,257	0.14	64.34
89.	HANIL DEV CO LTD & AL NABANI JV	164,487	0.14	64.48
90.	GETTY OIL CO			
	GETTY REFINING & MARKETING CO	162,862		
	TOTAL	162,862	0.14	64.62
91.	GULF STATES OIL & REFINING CO	161,602	0.14	64.76
92.	VARIAN ASSOCIATES INC	150,785		
	PULSE ENGINEERING INC	5,276		
	SENICON ASSOCIATES INC	20		
	VARIAN DATA MACHINES	74		
	VARIAN GRAPHICS	47		
	VARIAN INSTRUMENTS	244		
	VARIAN MEDICAL GROUP	11		
	TOTAL	156,457	0.13	64.89
93.	HEWLETT PACKARD CO	152,970	0.13	65.02
94.	KUWAIT PETROLEUM CORP			
	KUWAIT NATIONAL PETROLEUM CO	151,651		
	TOTAL	151,651	0.13	65.15
95.	UNITED INDUSTRIAL CORP			
	A A I CORP	140,150		
	AFFILIATED HOSPITAL PRODS	3,077		
	DETROIT STOKER CO	197		
	M P L INC	519		
	TOTAL	143,943	0.12	65.27
96.	MI RYUNG CONSTRUCTION CO LTD	141,227	0.12	65.39
97.	PETERSON BUILDERS INC	140,965	0.12	65.51

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RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF TOTAL	CUMULATIVE PERCENT OF TOTAL
98.	SUN CHEMICAL CORP	139,664	0.12	65.63
99.	TRANSAMERICA CORP			
	TRANS INTERNATIONAL AIRLINES CORP	102,945		
	TRANSAMERICA DELAVAL INC	35,492		
	TOTAL	138,437	0.12	65.75
100.	NORRIS INDUSTRIES INC	135,720	0.12	65.87